

DI-1PSM

RS-485 Repeater

For BENDER Communication Bus



DI-1PSM RS-485 Repeater



RS-485 interface repeater DI-1PSM

Description

The DI-1PSM is an RS-485 repeater for use when connecting BENDER devices via the RS-485 communication bus. This device is required when implementing an RS-485 bus that exceeds 3900 ft (1200 m) and/or when more than 32 devices (nodes) are connected.

Application

- Extends bus length by an additional 3900 ft (1200 m)
- Extends maximum possible bus nodes by 32
- Galvanic separation between input/output circuit and power supply

Features

- Plastic enclosure for DIN rail mounting
- Adjustable baud rate
- Galvanic separation between the input and output circuit and the power supply
- Supply voltage AC/DC 24 V \pm 20 %

Technical data RS-485 interface repeater DI-1PSM

Insulation coordination acc. to IEC 60664-1

Rated voltage	
Rated impulse voltage/pollution degree	2 kV/3

Supply voltage

Supply voltage U_s	see ordering information
Power consumption	90 mA

Interfaces

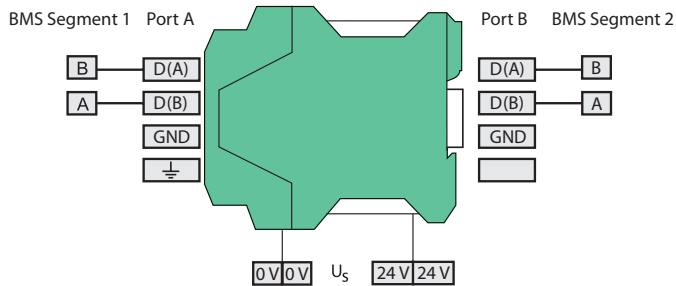
BMS

Interface/protocol	2 x RS-485 /--
Baud rate adjustable via DIP switch	4.8...1500 kbit/s
Cable length	≤ 1200 m
Recommended cable (shielded, shield connected to PE on one side)	min. J-Y(St)Y 2 x 0.6
Operating mode	half-duplex
Change of data direction	automatic data direction control
Cascading capability	9 (4.8...93.75 kbit / s)
Terminating resistor, selectable via DIP switch	220 Ω
Device address, BMS bus	--
Alarm LEDs	ON (green), R x D (green), T x D (yellow)

General data

EMC immunity	acc. to EN 61000-6-2
EMC emission	acc. to EN 50081-1
Classification of climatic conditions IEC 60721	
Stationary use	3K5
Transport	2K3
Storage	1K4
Operating temperature	0 °C...+55 °C
Classification of mechanical conditions acc. to IEC 60721	
Stationary use	3M4
Transport	2M2
Storage	1M3
Operating mode	continuous operation
Mounting	any position
Connection	screw-type terminals
Connection properties	
rigid/flexible/conductor sizes	0.2...2.5 mm /AWG 24...12
Degree of protection, internal components (IEC 60529)	IP 30
Degree of protection, terminals (IEC 60529)	IP 20
DIN rail mounting acc. to	IEC 60715
Operating manual	BP501012
Weight	≤ 130 g

Wiring diagram



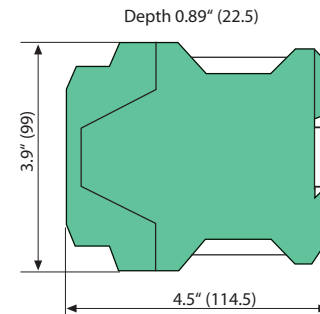
Ordering information

Type	Supply voltage U_s	Art. No.
DI-1PSM	AC/DC 24 V ± 20 %	B 9501 2044

*Absolute value

Dimensions

Dimensions in inches (mm)





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